

Appl. No. 09/654,293  
Reply to Office action of May 3, 2005

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1-58 (canceled)

59. (new) A method of enucleating an avian oocyte comprising:  
visualizing internal structure of an avian oocyte utilizing TPLSM and ablating  
a nucleus of the oocyte by near-infrared light, thereby enucleating an avian oocyte.

60. (new) The method of claim 59 wherein the near-infrared light has a  
wavelength in a range of about 700nm to about 1000nm.

61. (new) The method of claim 59 wherein the near-infrared light has a  
wavelength of 750 nm.

62. (new) The method of claim 59 wherein the oocyte cell is an ovum.

63. (new) The method of claim 59 wherein the oocyte is a zygote.

64. (new) The method of claim 59 the oocyte is a blastoderm.

65. (new) A method of enucleating an avian oocyte comprising:  
visualizing internal structure of an avian oocyte utilizing TPLSM and ablating  
a nucleus of the oocyte by near-infrared light having a wavelength in a range of about 700nm  
to about 1000nm, thereby enucleating an avian oocyte.

66. (new) The method of claim 65 wherein the near-infrared light has a  
wavelength of 750 nm.

67. (new) The method of claim 65 wherein the oocyte cell is an ovum.

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68. (new) The method of claim 65 wherein the oocyte is a zygote.
69. (new) The method of claim 65 the oocyte is a blastoderm.
70. (new) A method of enucleating an avian oocyte comprising:  
visualizing internal structure of an avian oocyte utilizing TPLSM and ablating  
a nucleus of the oocyte by near-infrared light having a wavelength of 750 nm, thereby  
enucleating an avian oocyte.
71. (new) The method of claim 70 wherein the oocyte cell is an ovum.
72. (new) The method of claim 70 wherein the oocyte is a zygote.
73. (new) The method of claim 70 the oocyte is a blastoderm.